



Bay Area Integrated Regional Water Management Plan Stakeholder Workshop #2: Integration

Handout #1: Regional Goals and Objectives

Goal	Objectives
Contribute to improved supply reliability	Contribute to:
	▪ Meeting future and dry year demands
	▪ Maximizing water use efficiency
	▪ Minimizing vulnerability of infrastructure to catastrophes and security breaches
	▪ Maximizing control within the Bay Area region
	▪ Preserving highest quality supplies for highest use
	▪ Protecting against overdraft
	▪ Providing for groundwater recharge while maintaining groundwater resources
	▪ Increasing opportunities for recycled water use consistent with health and safety
	▪ Maintaining a diverse portfolio of water supplies to maximize flexibility
▪ Securing funds to implement solutions	
Contribute to the protection and improvement of hydrologic function	Contribute to:
	▪ Protecting, restoring, and rehabilitating natural watershed processes
	▪ Controlling excessive erosion and managing sedimentation
	▪ Maintaining or improving in-stream flow conditions
	▪ Improving floodplain connectivity
	▪ Preserving land perviousness and infiltration capacity
	▪ Securing funds to implement solutions

Goal	Objectives
<p>Contribute to the protection and improvement of the quality of water resources</p>	<p>Contribute to:</p> <ul style="list-style-type: none"> ▪ Minimizing point and nonpoint source pollution ▪ Reducing salinity-related problems ▪ Reducing mass loading of pollutants to surface waters ▪ Minimizing taste and odor problems ▪ Preserving natural stream buffers and floodplains to improve filtration of point and non-point source pollutants ▪ Maintaining health of upland vegetation and land cover, to reduce runoff quantity and improve runoff quality ▪ Protecting surface and ground water resources from pollution and degradation ▪ Anticipating emerging contaminants ▪ Eliminating non-stormwater pollutant discharges to storm drains ▪ Reducing pollutants in runoff to the maximum extent practicable ▪ Periodically evaluating beneficial uses ▪ Continuously improving stormwater pollution prevention methods ▪ Securing funds to implement solutions
<p>Contribute to the protection of public health & safety; and property</p>	<p>Contribute to:</p> <ul style="list-style-type: none"> ▪ Providing clean, safe, reliable drinking water ▪ Minimizing variability for treatment ▪ Advancing technology through feasibility studies/demonstrations ▪ Meeting promulgated and expected drinking water quality standards ▪ Managing floodplains to reduce flood damages to homes, businesses, schools, and transportation ▪ Minimizing health impacts associated with polluted waterways ▪ Achieving effective floodplain management by encouraging wise use and management of flood-prone areas ▪ Maintaining performance of flood protection and stormwater facilities ▪ Partnering with municipalities to prepare mitigation action plans that reduce flood risks to the community ▪ Coordinating resources and mutual aid between agencies to enhance agency effectiveness ▪ Securing funds to implement solutions

Goal	Objectives
<p>Contribute to the creation, protection, enhancement, and maintenance of environmental resources and habitats</p>	<p>Contribute to:</p> <ul style="list-style-type: none"> ▪ Providing net benefits to environment ▪ Conserving and restoring habitat for species protection ▪ Acquiring, protecting and/or restoring wetlands, streams, and riparian areas ▪ Enhancing wildlife populations and biodiversity (species richness) ▪ Providing lifecycle support (shelter, reproduction, feeding) ▪ Protecting and recovering fisheries (natural habitat and harvesting) ▪ Preserving open space and wildlands ▪ Protecting wildlife movement/wildlife corridors ▪ Managing pests and invasive species ▪ Recovering at-risk native and special status species ▪ Improving structural complexity (riparian and channel) ▪ Designing and constructing new or improved flood protection and stormwater facilities ▪ Securing funds to implement solutions
<p>Contribute to the promotion of economic, social, and environmental sustainability</p>	<p>Contribute to:</p> <ul style="list-style-type: none"> ▪ Avoiding, minimizing, and mitigating net impacts to environment ▪ Maintaining and promoting economic and environmental sustainability through sound water resources management practices ▪ Maximizing external support ▪ Maximizing ability to get outside funding ▪ Maximizing economies of scale and governmental efficiencies ▪ Providing trails and recreation opportunities ▪ Protecting cultural resources ▪ Increasing community outreach and education for watershed health ▪ Maximizing community involvement and stewardship ▪ Reducing energy use and/or use renewable resources where appropriate ▪ Minimizing solid waste generation/maximize reuse

Goal	Objectives
	<ul style="list-style-type: none"><li data-bbox="699 282 1917 354">▪ Engaging public agencies, businesses, and the public in stormwater pollution prevention and watershed management, including decision-making<li data-bbox="699 354 1917 425">▪ Achieving community awareness of local flood risks, including potential risks in areas protected by existing projects<li data-bbox="699 425 1917 464">▪ Considering disproportionate community impacts<li data-bbox="699 464 1917 503">▪ Balancing needs for all beneficial uses of water<li data-bbox="699 503 1917 540">▪ Securing funds to implement solutions



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Handout #2: Water Management Strategies Address Regional Goals

Water Management Strategies Considered	IRWMP Regional Goals					
	Contribute to Improved Water Supply Reliability	Contribute to Protection and Improvement of Hydrologic Function	Contribute to Protection and Improvement of the Quality of Water Resources	Contribute to Protection of Public Health, Safety, and Property	Contribute to Protection, Enhancement, and Maintenance of Environmental Resources and Habitats	Contribute to Economic, Social, and Environmental Sustainability
Ecosystem Restoration		✓	✓		✓	✓
Environmental and Habitat Protection and Improvement		✓	✓		✓	✓
Water Supply Reliability	✓			✓		✓
Flood Management		✓		✓	✓	✓
Groundwater Management	✓	✓	✓			✓
Recreation and Public Access						✓
Storm Water Capture and Management	✓		✓	✓	✓	✓
Water Conservation	✓					✓
Water Quality Protection and Improvement			✓	✓	✓	✓
Water Recycling	✓					✓
Wetlands Enhancement and Creation	✓	✓	✓		✓	✓
Conjunctive Use	✓		✓			✓
Desalination	✓		✓			✓
Imported Water	✓					✓
Land Use Planning	✓	✓	✓		✓	✓
NPS Pollution Control			✓		✓	✓
Surface Storage	✓					✓
Watershed Planning	✓	✓	✓		✓	✓
Water and Wastewater Treatment	✓		✓	✓		✓
Water Transfers	✓					✓
Interties	✓			✓		✓
Infrastructure Reliability	✓			✓		✓
Regional Cooperation	✓	✓	✓	✓	✓	✓
Acquisition and Protection of Watershed Lands	✓	✓	✓		✓	✓
Fisheries Protection and Enhancement			✓		✓	✓
Exotic and Invasive Species Removal		✓	✓		✓	✓
Environmental Water Balance		✓	✓		✓	✓
Watershed Education and Outreach		✓	✓	✓	✓	✓
Monitoring and Modeling	✓	✓	✓	✓	✓	✓



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Handout #3: Proposition 50 Program Preferences & Statewide Priorities¹

Proposition 50 Program Preferences

The California Water Code and implementing legislation specifies that preference will be given to specific project types. These program preferences are reflected in the evaluation criteria and will be taken into consideration during the review process. Preference will be given to proposals that, as applicable:

- ◆ Include integrated projects with multiple benefits;
- ◆ Support and improve local and regional water supply reliability;
- ◆ Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards;
- ◆ Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance;
- ◆ Include safe drinking water and water quality projects that serve disadvantaged communities; or
- ◆ Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties; 2) outside the service area of the Metropolitan Water District of Southern California; **and** 3) within one mile of established residential and commercial development.

Statewide Priorities

The Department of Water Resources (DWR) and State Water Resources Control Board (SWRCB) will give consideration during the review process to proposals that assist in meeting Statewide Priorities, established by DWR and SWRCB, which are as follows:

- ◆ Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- ◆ Implementation of Total Maximum Daily Loads that are established or under development;
- ◆ Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;
- ◆ Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan;
- ◆ Assist in meeting Delta Water Quality Objectives;
- ◆ Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan;
- ◆ Address environmental justice concerns; and
- ◆ Assist in achieving one or more goals of the CALFED Bay-Delta Program.

¹ Adapted from the *Integrated Regional Water Management Grant Program Guidelines*, State Water Resources Control Board and Department of Water Resources, November 2004, sections II.E and II.F.



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Handout #4: Water Management Strategies Provide Multiple Benefits

Goal: Contribute to Improved Water Supply Reliability

Strategies	Benefits Provided				
	Meets Demands	Maximizes Efficiency	Minimizes Vulnerability	Protects Against Overdraft	Diversifies Supplies
Environmental and habitat protection and improvement					
Water supply reliability	●	●	●	●	●
Groundwater management	●	●	●	●	●
Storm water capture and management		●		●	●
Water conservation	●	●	●	●	
Water recycling	●	●	●	●	●
Wetlands enhancement and creation					
Conjunctive use	●	●	●	●	●
Desalination	●		●	●	●
Imported water	●			●	●
Land use planning			●	●	
Surface storage	●		●	●	●
Watershed planning	●				
Water and wastewater treatment	●		●		
Water transfers	●		●	●	●
Interties	●		●		●
Infrastructure reliability	●	●	●		
Regional cooperation	●	●	●	●	●
Education and Outreach	●	●	●		●
Modeling and Monitoring	●	●	●	●	●

Goal: Contribute to the Protection and Improvement of Hydrologic Function

Strategies	Benefits Provided			
	Protect Natural Processes	Control Erosion and Sedimentation	Improve Floodplain Connectivity	Preserve Perviousness
Ecosystem Restoration	●	●	●	●
Environmental and habitat protection and improvement	●	●	●	●
Flood management	●	●	●	●
Groundwater management			●	●
Wetlands enhancement and creation	●	●	●	●
Land use planning	●	●	●	●
Watershed planning	●	●	●	●
Regional cooperation	●	●	●	●
Education and outreach	●	●	●	●
Monitoring and modeling	●	●	●	●

Goal: Contribute to Protection and Improvement of the Quality of Water Resources

Strategies	Benefits Provided			
	Minimize Pollution	Manage Salinity	Minimize Taste & Odor	Manage Runoff
Ecosystem restoration	●	●		●
Environmental and habitat protection and improvement	●	●		●
Flood management	●			●
Groundwater management	●	●	●	●
Storm water capture and management	●	●		●
Water quality protection and improvement	●	●	●	●
Wetlands enhancement and creation	●	●		●
Conjunctive use		●	●	
Desalination		●		
NPS pollution control	●	●	●	●
Water and wastewater treatment	●	●	●	●
Land use planning	●	●	●	●
Watershed planning	●	●	●	●
Regional cooperation	●	●	●	●
Education and outreach	●			●
Monitoring and modeling	●	●		●

Goal: Contribute to Protection of Public Health, Safety and Property

Strategies	Benefits Provided		
	Provides Clean, Safe Supplies	Protects Against Flooding/SSOs	Advances Technology
Ecosystem restoration		●	
Environmental and habitat protection and restoration		●	
Water supply reliability	●		
Flood management	●	●	
Storm water capture and management	●	●	
Water quality protection and improvement	●		●
Wetlands enhancement and creation		●	
Land use planning		●	
Watershed planning		●	
Water and wastewater treatment	●	●	●
Interties	●		
Infrastructure reliability	●	●	
Regional cooperation	●	●	●
Education and outreach	●	●	●
Monitoring and Modeling	●	●	●

Goal: Contribute to Protection, Enhancement, and Maintenance of Environmental Resources and Habitats

Strategies	Benefits Provided			
	Conserves/ Restores Habitats & Wetlands	Protects/ Restores Wildlife & Fisheries	Manages Pests & Invasive Species	Improves Structural Complexity
Ecosystem restoration	●	●	●	●
Environmental and habitat protection and improvement	●	●	●	●
Flood management		●	●	●
Storm water capture and management		●	●	
Water quality protection and improvement	●	●	●	
Wetlands enhancement and creation	●	●	●	●
Land use planning	●	●		●
NPS pollution control	●	●		
Watershed planning	●	●	●	●
Regional cooperation	●	●	●	●
Education and outreach	●	●	●	●
Monitoring and modeling	●	●		●

Goal: Contribute to Economic, Social, and Environmental Sustainability

Strategy	Benefits Provided		
	Avoids/ Minimizes/ Mitigates Net Environmental Impacts	Maximizes Public Involvement and Benefit	Maximizes Efficiency, Reuse and Renewable Resources
Ecosystem restoration	●	●	
Environmental and habitat protection and improvement	●	●	
Water supply reliability	●	●	●
Flood management	●	●	
Recreation and public access		●	
Storm water capture and management	●		●
Water conservation	●	●	●
Water quality protection and improvement	●	●	
Water recycling	●		●
Wetlands enhancement and creation	●	●	
Conjunctive use	●		●
Land use planning	●	●	
NPS pollution control	●		
Watershed planning	●	●	
Infrastructure reliability	●	●	●
Education and outreach		●	●
Modeling and monitoring	●	●	●
Regional cooperation	●	●	●